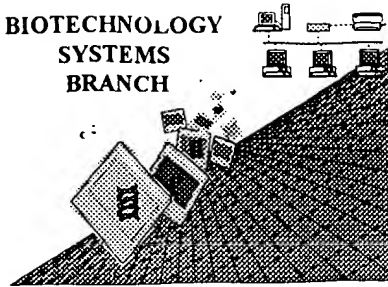


Korom

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/592,695

Source:

1627

Date Processed by STIC:

3/16/2001

#8

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

**Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/592,695

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 \_\_\_\_\_ Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 \_\_\_\_\_ Wrapped Aminos      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 \_\_\_\_\_ Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 \_\_\_\_\_ Misaligned Amino Acid      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs  
Numbering      between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 \_\_\_\_\_ Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 J \_\_\_\_\_ Variable Length      Sequence(s) 1 contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and  
indicate in the (ix) feature section that some may be missing.
- 7 \_\_\_\_\_ PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid  
sequence(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the  
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to  
the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>  
sections for Artificial or Unknown sequences.
- 8 \_\_\_\_\_ Skipped Sequences      Sequence(s) \_\_\_\_ missing. If intentional, please use the following format for each skipped sequence:  
(OLD RULES)      (2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 \_\_\_\_\_ Skipped Sequences      Sequence(s) \_\_\_\_ missing. If intentional, please use the following format for each skipped sequence.  
(NEW RULES)      <210> sequence id number  
<400> sequence id number  
000
- 10 \_\_\_\_\_ Use of n's or Xaa's      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 J \_\_\_\_\_ Use of <213>Organism      Sequence(s) \_\_\_\_\_ are missing this mandatory field or its response.  
(NEW RULES)      1
- 12 \_\_\_\_\_ Use of <220>Feature      Sequence(s) \_\_\_\_ are missing the <220>Feature and associated headings.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 \_\_\_\_\_ PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted  
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

1627

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001  
TIME: 15:33:38

Input Set : A:\PTO.txt  
Output Set: N:\CRF3\03162001\I592695.raw

Does Not Comply  
Corrected Diskette Needed

pg 1, 4-5

3 <110> APPLICANT: Cochran, Andrea G.  
4 Skelton, Nicholas J.  
5 Starovasnik, Melissa A.  
7 <120> TITLE OF INVENTION: Structured Peptide Scaffold For Displaying Turn  
8 Libraries On Phage  
10 <130> FILE REFERENCE: P1762R1 US  
12 <140> CURRENT APPLICATION NUMBER: US 09/592,695  
13 <141> CURRENT FILING DATE: 2000-06-13  
15 <150> PRIOR APPLICATION NUMBER: US 60/139,017  
16 <151> PRIOR FILING DATE: 1999-06-14  
18 <160> NUMBER OF SEQ ID NOS: 25  
20 <210> SEQ ID NO: 1  
21 <211> LENGTH: 7  
22 <212> TYPE: PRT  
23 <213> ORGANISM: Artificial Sequence *see item 12 on Error Summary Sheet*  
25 <220> FEATURE:  
26 <223> OTHER INFORMATION: Xaa at positions 3 and 5 are selected from the group consisting of amino  
27 acids Trp, Tyr, Phe, Leu, Met, Ile and Val;  
29 <220> FEATURE:  
W--> 30 <221> NAME/KEY: Artificial Sequence *These are not responses shown in WIPO Standard*  
31 <222> LOCATION: Full *ST.25 Appendix 2 Tables 5 and 6*  
32 <223> OTHER INFORMATION: Xaa at positions 2 and 6 are selected from the group consisting of amino  
33 acids Trp, Tyr, Phe, His, Ile, Val and Thr;  
35 <220> FEATURE:  
W--> 36 <221> NAME/KEY: Artificial Sequence3 *not in WIPO Standard ST.25 see 1.823 of new Sequence Rules*  
37 <222> LOCATION: Full  
38 <223> OTHER INFORMATION: Xaa at position 4 stands for (3-12) L-form amino acids.  
40 <220> FEATURE:  
W--> 41 <221> NAME/KEY: unsure *These locations have been identified above*  
42 <222> LOCATION: 2-6  
43 <223> OTHER INFORMATION: unknown amino acid  
45 <400> SEQUENCE: 1  
W--> 46 Cys Xaa Xaa Xaa Xaa Xaa Cys  
47 1 5  
49 <210> SEQ ID NO: 2  
50 <211> LENGTH: 10  
51 <212> TYPE: PRT  
52 <213> ORGANISM: Artificial Sequence  
54 <220> FEATURE:  
55 <223> OTHER INFORMATION: turn peptide  
57 <400> SEQUENCE: 2  
58 Cys Thr Trp Glu Gly Asn Lys Leu Thr Cys  
59 1 5 10  
61 <210> SEQ ID NO: 3  
62 <211> LENGTH: 12  
63 <212> TYPE: PRT  
64 <213> ORGANISM: Artificial Sequence

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MAR 23 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING                      DATE: 03/16/2001  
 PATENT APPLICATION: US/09/592,695        TIME: 15:33:38

Input Set : A:\PTO.txt  
 Output Set: N:\CRF3\03162001\I592695.raw

```

66 <220> FEATURE:
67 <223> OTHER INFORMATION: turn peptide
69 <400> SEQUENCE: 3
70 Ser Cys Thr Trp Glu Gly Asn Lys Leu Thr Cys Lys
71   1           5           10
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 10
75 <212> TYPE: PRT
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: turn peptide
81 <400> SEQUENCE: 4
82 Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys
83   1           5           10
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 10
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: turn peptide
93 <400> SEQUENCE: 5
94 Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys
95   1           5           10
97 <210> SEQ ID NO: 6
98 <211> LENGTH: 12
99 <212> TYPE: PRT
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: turn peptide
105 <400> SEQUENCE: 6
106 Ser Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys Lys
107   1           5           10
109 <210> SEQ ID NO: 7
110 <211> LENGTH: 12
111 <212> TYPE: PRT
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: turn peptide
117 <400> SEQUENCE: 7
118 Ser Cys Thr Asn Gln Gly Ser Phe Leu Thr Cys Lys
119   1           5           10
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 12
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: turn peptide
129 <400> SEQUENCE: 8
130 Ser Cys Gly Trp Gln Gly Ser Phe Leu Thr Cys Lys

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001  
 TIME: 15:33:38

Input Set : A:\PTO.txt  
 Output Set: N:\CRF3\03162001\I592695.raw

```

131      1              5              10
133 <210> SEQ ID NO: 9
134 <211> LENGTH: 12
135 <212> TYPE: PRT
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: turn peptide
141 <400> SEQUENCE: 9
142   Ser Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys Lys
143       1              5              10
145 <210> SEQ ID NO: 10
146 <211> LENGTH: 12
147 <212> TYPE: PRT
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: turn peptide
153 <400> SEQUENCE: 10
154   Ser Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys Lys
155       1              5              10
157 <210> SEQ ID NO: 11
158 <211> LENGTH: 12
159 <212> TYPE: PRT
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: turn peptide
165 <400> SEQUENCE: 11
166   Ser Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys Lys
167       1              5              10
169 <210> SEQ ID NO: 12
170 <211> LENGTH: 10
171 <212> TYPE: PRT
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: turn peptide
177 <400> SEQUENCE: 12
178   Cys Thr Lys Val Trp Gln Leu Trp Thr Cys
179       1              5              10
181 <210> SEQ ID NO: 13
182 <211> LENGTH: 12
183 <212> TYPE: PRT
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: turn peptide
189 <400> SEQUENCE: 13
190   Ser Cys Thr Trp Val Trp Gln Leu Leu Thr Cys Lys
191       1              5              10
193 <210> SEQ ID NO: 14
194 <211> LENGTH: 12
195 <212> TYPE: PRT

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001  
 TIME: 15:33:38

Input Set : A:\PTO.txt  
 Output Set: N:\CRF3\03162001\I592695.raw

196 <213> ORGANISM: Artificial Sequence  
 198 <220> FEATURE:  
 199 <223> OTHER INFORMATION: turn peptide  
 201 <400> SEQUENCE: 14  
 202 Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys  
 203 1 5 10

205 <210> SEQ ID NO: 15  
 206 <211> LENGTH: 12  
 207 <212> TYPE: PRT  
 208 <213> ORGANISM: Artificial Sequence  
 210 <220> FEATURE:  
 211 <223> OTHER INFORMATION: turn peptide  
 213 <400> SEQUENCE: 15  
 214 Ser Cys Thr Trp Gly Pro Leu Thr Leu Thr Cys Lys  
 215 1 5 10

217 <210> SEQ ID NO: 16  
 218 <211> LENGTH: 10  
 219 <212> TYPE: PRT  
 220 <213> ORGANISM: Artificial Sequence  
 222 <220> FEATURE:

223 <223> OTHER INFORMATION: turn peptide; Xaa is Trp, Tyr, Leu, Val, Thr or Asp.  
 225 <220> FEATURE:

226 <221> NAME/KEY: unsure ?  
 227 <222> LOCATION: 3  
 228 <223> OTHER INFORMATION: unknown amino acid  
 230 <400> SEQUENCE: 16

W--> 231 Cys Thr Xaa Glu Gly Asn Lys Leu Thr Cys  
 232 1 5 10

234 <210> SEQ ID NO: 17  
 235 <211> LENGTH: 10  
 236 <212> TYPE: PRT  
 237 <213> ORGANISM: Artificial Sequence  
 239 <220> FEATURE:

240 <223> OTHER INFORMATION: turn peptide; Xaa is Trp, Tyr, Leu, Val, Thr or Asp.  
 242 <220> FEATURE:

243 <221> NAME/KEY: unsure  
 244 <222> LOCATION: 3  
 245 <223> OTHER INFORMATION: unknown amino acid  
 247 <400> SEQUENCE: 17

W--> 248 Cys Thr Xaa Glu Asn Gly Lys Leu Thr Cys  
 249 1 5 10

251 <210> SEQ ID NO: 18  
 252 <211> LENGTH: 10  
 253 <212> TYPE: PRT  
 254 <213> ORGANISM: Artificial Sequence  
 256 <220> FEATURE:

257 <223> OTHER INFORMATION: turn peptide; Xaa is Trp, Tyr, Leu, Val, Thr or Asp.  
 259 <220> FEATURE:

260 <221> NAME/KEY: unsure

? Xaa has been identified as one of the above.

same discrepancy as above

same

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001  
TIME: 15:33:38

Input Set : A:\PTO.txt  
Output Set: N:\CRF3\03162001\I592695.raw

261 <222> LOCATION: 3  
262 <223> OTHER INFORMATION: (unknown amino acid)  
264 <400> SEQUENCE: 18  
W--> 265 Cys Thr Xaa Glu Pro Asn Lys Leu Thr Cys  
266 1 5 10  
268 <210> SEQ ID NO: 19  
269 <211> LENGTH: 10  
270 <212> TYPE: PRT  
271 <213> ORGANISM: Artificial Sequence  
273 <220> FEATURE:  
274 <223> OTHER INFORMATION: turn peptide: (Xaa is Trp, Tyr, Leu, Val, Thr or Asp.)  
276 <220> FEATURE:  
277 <221> NAME/KEY: (unsure)  
278 <222> LOCATION: (3)  
279 <223> OTHER INFORMATION: (unknown amino acid) *same*  
281 <400> SEQUENCE: 19  
W--> 282 Cys Thr Xaa Glu Pro Gly Lys Leu Thr Cys  
283 1 5 10  
285 <210> SEQ ID NO: 20  
286 <211> LENGTH: 10  
287 <212> TYPE: PRT  
288 <213> ORGANISM: Artificial Sequence  
290 <220> FEATURE:  
291 <223> OTHER INFORMATION: (Xaa is Trp, Tyr, Phe, Leu, Met, Ile, Val or Ala)  
293 <220> FEATURE:  
294 <221> NAME/KEY: (unsure)  
295 <222> LOCATION: (3)  
296 <223> OTHER INFORMATION: (unknown amino acid) *same*  
298 <400> SEQUENCE: 20  
W--> 299 Cys Thr Xaa Glu Gly Asn Lys Leu Thr Cys  
300 1 5 10  
302 <210> SEQ ID NO: 21  
303 <211> LENGTH: 10  
304 <212> TYPE: PRT  
305 <213> ORGANISM: Artificial Sequence  
307 <220> FEATURE:  
308 <223> OTHER INFORMATION: (Xaa is Trp, Tyr, Phe, Leu, Met, Ile, Val or Ala)  
310 <220> FEATURE:  
311 <221> NAME/KEY: (unsure)  
312 <222> LOCATION: (8)  
313 <223> OTHER INFORMATION: (unknown amino acid) *same*  
315 <400> SEQUENCE: 21  
W--> 316 Cys Thr Leu Glu Gly Asn Lys Xaa Thr Cys  
317 1 5 10  
319 <210> SEQ ID NO: 22  
320 <211> LENGTH: 10  
321 <212> TYPE: PRT  
322 <213> ORGANISM: Artificial Sequence  
324 <220> FEATURE:

*Please correct these errors  
in subsequent sequences too.*

*FJI*

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is present in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/592,695

DATE: 03/16/2001  
TIME: 15:33:39

Input Set : A:\PTO.txt  
Output Set: N:\CRF3\03162001\I592695.raw

L:30 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1  
L:36 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1  
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21  
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:350 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25